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 Ron Musick , Terence Critchlow
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 Volume 28 Issue 4
- 2 A powerful and SQL-compatible data model and query language for 80%
 OLAP
 Dennis Pedersen , Karsten Riis , Torben Bach Pedersen
Australian Computer Science Communications , Proceedings of the thirteenth Australasian conference on Database technologies - Volume 5 January 2002
 Volume 24 Issue 2
 In this paper we present the SQLM OLAP data model, formal algebra, and query language that, unlike current OLAP data models and languages, are both *powerful*, meaning that they support irregular dimension hierarchies, automatic aggregation of data, and correct aggregation of data, and *SQL-compatible*, allowing seamless integration with relational technology. We also consider the requirements to the data model posed by integration of OLAP data with external XML data. ...
- 3 Designing data marts for data warehouses 80%
ACM Transactions on Software Engineering and Methodology (TOSEM) October 2001
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 Data warehouses are databases devoted to analytical processing. They are used to support decision-making activities in most modern business settings, when complex data sets have to be studied and analyzed. The technology for analytical processing assumes that data are presented in the form of simple data marts, consisting of a well-identified collection of facts and data analysis dimensions (star schema). Despite the wide diffusion of data warehouse technology and concepts, we still miss me ...
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-  specification language for multidimensional databases
 Juan Trujillo , Manuel Palomar , Jaime Gómez
Proceedings of the 2000 ACM symposium on Applied computing March 2000
- 5** An adaptive view element framework for multi-dimensional data management 80%
 John R. Smith , Chung-Sheng Li
Proceedings of the eighth international conference on Information and knowledge management November 1999
 We present an adaptive wavelet view element framework for managing different types of multi-dimensional data in storage and retrieval applications. We consider the problems of multi-dimensional data compression, multi-resolution subregion access, selective materialization, progressive retrieval and similarity searching. The framework uses wavelets to partition the multi-dimensional data into view elements that form the building blocks for synthesizing views of the data. The view ele ...
- 6** Detecting patterns and OLAP operations in the GOLD model 80%
 Juan Trujillo , Manuel Palomar , Jaime Gómez
Proceedings of the 2nd ACM international workshop on Data warehousing and OLAP November 1999
 The aim of our GOLD model ([7], [9]) is to provide an Object Oriented (OO) Multidimensional data model supported by an OO formal specification language that allows us to automatically generate prototypes from the specification at the conceptual level, and therefore, to animate and check system properties. Within the context of OO modeling and automatic prototyping, the basis of the mapping from modeling to programming is focused on the identification of (cardinality and beh ...
- 7** An object oriented approach to multidimensional database conceptual modeling (OOMD) 80%
 J. Trujillo , M. Palomar
Proceedings of the 1st ACM international workshop on Data warehousing and OLAP November 1998
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 L. Schlesinger , A. Bauer , W. Lehner , G. Ediberidze , M. Gutzmann
Proceedings of the 4th ACM international workshop on Data warehousing and OLAP November 2001
 Most existing concepts in data warehousing provide a central database system storing gathered raw data and redundantly computed materialized views. While in current system architectures client tools are sending queries to a central data warehouse system and are only used to graphically present the result, the steady rise in power of personal computers and the expansion of network bandwidth makes it possible to store replicated parts of the data warehouse at the client thus saving network bandwidth ...
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 Anant Jhingran
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- 10** Conceptual multidimensional data model based on object-oriented 77%



metacube

Nguyen Thanh Binh , A. Min Tjoa

Proceedings of the 2001 ACM symposium on Applied computing March 2001**11** Workshop reports: Report on the ACM fourth international workshop on 77%

data warehousing and OLAP (DOLAP 2001)

Joachim Hammer

ACM SIGIR Forum April 2002

Volume 36 Issue 1

12 Searching for dependencies at multiple abstraction levels 77%

Toon Calders , Raymond T. Ng , Jef Wijsen

ACM Transactions on Database Systems (TODS) September 2002

Volume 27 Issue 3

The notion of roll-up dependency (RUD) extends functional dependencies with generalization hierarchies. RUDs can be applied in OLAP and database design. The problem of discovering RUDs in large databases is at the center of this paper. An algorithm is provided that relies on a number of theoretical results. The algorithm has been implemented; results on two real-life datasets are given. The extension of functional dependency (FD) with roll-ups turns out to capture meaningful rules that are outsi ...

13 Reports: Report on the ACM fourth international workshop on data 77%

warehousing and OLAP (DOLAP 2001)

Joachim Hammer

ACM SIGMOD Record June 2002

Volume 31 Issue 2

The Fourth Annual ACM International Workshop on Data Warehousing and Online Analytical Processing (DOLAP 2001) was held in Atlanta, GA, USA, in November 2001, in conjunction with the Tenth International Conference on Information and Knowledge Management (CIKM 2001). Although this was only the fourth annual meeting, DOLAP has already become an important and broadly accepted forum for researchers and practitioners to share their findings in theoretical foundations, current methodologies, practical ...

14 High performance multidimensional analysis and data mining 77%

Sanjay Goil , Alok Choudhary

Proceedings of the 1998 ACM/IEEE conference on Supercomputing (CDROM)

November 1998

Summary information from data in large databases is used to answer queries in On-Line Analytical Processing (OLAP) systems and to build decision support systems over them. The *Data Cube* is used to calculate and store summary information on a variety of dimensions, which is computed only partially if the number of dimensions is large. Queries posed on such systems are quite complex and require different views of data. These may either be answered from a materialized cube in the data cube o ...

15 CubiST: a new algorithm for improving the performance of ad-hoc OLAP 77%

queries

Lixin Fu , Joachim Hammer

Proceedings of the 3rd ACM international workshop on Data warehousing and OLAP November 2000

- 16** An introduction to data warehousing: what are the implications for the network? 77%



Katherine Jones

International Journal of Network Management February 1998

Volume 8 Issue 1

Data warehousing is an information systems environment, rather than a product. It has emerged as an essential business entity for sophisticated analysis of data. This article presents a clear overview of the implications of data warehousing for business.
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- 17** High performance multidimensional analysis of large datasets 77%



Sanjay Goil , Alok Choudhary

Proceedings of the 1st ACM international workshop on Data warehousing and OLAP November 1998

- 18** A toolkit for negotiation support interfaces to multi-dimensional data 77%



Michael Gebhardt , Matthias Jarke , Stephan Jacobs

ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conference on Management of data June 1997

Volume 26 Issue 2

CoDecide is an experimental user interface toolkit that offers an extension to spreadsheet concepts specifically geared towards support for cooperative analysis of the kinds of multi-dimensional data encountered in data warehousing. It is distinguished from previous proposals by direct support for drill-down/roll-up analysis without redesign of an interface; more importantly, CoDecide can link multiple views on a data cube for synchronous or asynchronous cooperation by multiple ana ...

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